

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
AIR QUALITY DIVISION

**RENEWABLE OPERATING PERMIT
REPORT CERTIFICATION**

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating Permit (ROP) program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as specified in Rule 213(3)(b)(ii), and be made available to the Department of Natural Resources and Environment, Air Quality Division upon request.

Source Name Marathon Petroleum Company LP County Wayne

Source Address 1300 South Fort Street City Detroit

AQD Source ID (SRN) A9831 ROP No. 199700013c ROP Section No. 01

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, this source was in compliance with ALL terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.
- ☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, EXCEPT for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

- ☐ 1. During the entire reporting period, ALL monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.
- ☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, EXCEPT for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 4/1/2012 To 6/30/2012

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

2nd Quarter 2012 Continuous Emission Monitoring (CEMS) Downtime and Excess Emission
Report.

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

C.T. Case

Name of Responsible Official (print or type)

MPC Investment LLC,
its General Partner
Deputy Assistant Secretary

Title

313-843-9100

Phone Number

Signature of Responsible Official

7/19/12

Date



Michigan Refining Division

Marathon Petroleum Company LP

1300 South Fort Street
Detroit, MI 48217
Telephone 313/843-9100

VIA FEDERAL EXPRESS

July 19, 2012

Ms. Wilhemina McLemore, District Supervisor
Michigan Department of Environmental Quality
Air Quality Division
3058 W. Grand Boulevard
Suite 2300
Detroit, MI 48202

**Re: Continuous Emissions Monitoring System Reports for the Second Quarter 2012;
Marathon Petroleum Company LP – Michigan Refining Division**

Dear Ms. McLemore:

This report contains information and data related to continuous emissions monitoring systems (CEMS) at Marathon Petroleum Company LP's (MPC's) Michigan Refining Division (MRD) for the first quarter 2012. These reports are submitted pursuant to the General Provisions of the federal New Source Performance Standards (40 CFR 60.7) and Rule 1170 of the Michigan Air Pollution Control Rules. In addition, this report contains information required by the first modification to the November 2005 First Revised NSR Consent Decree, United States of America et. al. v. Marathon Petroleum Company LLC (Civil Action No. 4:01CV-40119-PVG), lodged February 7, 2008 and entered on March 31, 2008. This report is divided into three attachments as follows:

Appendix A – CEMS downtime and excess emissions summary reports pursuant to 40 CFR 60.7(d) for all environmental analyzers at the Refinery. The CEMS did not exceed the 5% downtime limit or the 1% excess emission limit.

Appendix B - New Source Performance Standards (NSPS) Subpart J Alternate Monitoring Plan (AMP) data for seven streams: (1) Alky Spent Caustic H₂S, (2) CCR/SR Recycle H₂ H₂S, (3) DHT/Unifiner Recycle H₂ H₂S, (4) FCCU Disulfide off-gas H₂S, (5) CP Spent Caustic Drum Vent H₂S, (6) SR Aromatics Sump Vent H₂S, and (7) CCR Chlorsorb Vent SO₂. The Alky Spent Caustic H₂S samples were collected in the mornings beginning April 17th to the end of the quarter. However the samples were inadvertently taken in the morning and not necessarily during release of caustic to the flare.

The Refinery has five additional AMPs for which no data is being submitted: (1) The Crude Spent Caustic Drum was permanently shutdown, (2) The BT Recycle Hydrogen, which was part of the BT Platformer unit, was permanently shutdown in September 2005, (3) CCR Lockhopper Vent Gas which currently cannot physically be vented to the flare or fuel system, (4) Propylene Deethanizer off-gas, and (5) Alky Deethanizer off-gas were re-routed to a location that the refinery's fuel gas H₂S analyzer will receive the streams.

All AMPs were obtained in accordance with the NSPS General Provisions (40 CFR §60.13(i)).

Appendix C – Data from cylinder gas audits performed on CEMS located on the exhaust of the B&W Boiler, CCR Charge Heater, Crude and Vacuum Heaters, East Plant H₂S, FCC Charge Heater, FCCU Regenerator, SRU Thermal Oxidizer, and the Zurn Boiler. A Relative Accuracy Test Audit (RATA) was conducted on the West Plant H₂S CEMS on April 18, 2012.

Please note, under the refinery's Title V permit in Table E-1.3, Section III.A.1 it indicates that quarterly cylinder gas audits of the FCCU opacity monitor are required; however, a quarterly cylinder gas audit program does not exist for this type of analyzer. The refinery is maintaining the analyzer according to the PTI 28-02A and completing a yearly audit of the analyzer. The refinery has requested a wording modification in the Title V renewal.

I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information in Appendices A through D of this submittal is, to the best of my knowledge and belief, true, accurate, and complete. Please contact Tabettha Daum at (313) 297-4701 if you have any questions concerning this submittal.

Sincerely,

Marathon Petroleum Company LP

By: MPC Investment LLC, General Partner



Mr. C.T. Case, Deputy Assistant Secretary

Attachments

cc: Technical Programs Unit - MDEQ: AQD – c/o Karen Kajiya-Mills – *Federal Express*

Chief, Environmental Enforcement Section, Environment and Natural Resources Division, U.S. DOJ - *Federal Express*

U.S. EPA, Director of Air Enforcement Division c/o Matrix Environmental and Geotechnical– *Federal Express*

Air and Radiation Division, U.S. EPA Region 5 – *Federal Express*

Office of Regional Counsel, U.S. EPA Region 5 – *Federal Express*

Appendix A

CEMS Downtime and Excess Emissions Summary Reports

Excess Emission and CEM Reporting Form

Pollutant: SO₂ (NO_x) CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Limas 11 (NO_x)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 0.20 lbs/MMBTU

Emission Unit: BW Boiler

Average Time: daily average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>1.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>17.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>18.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.82</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x **CO** CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 400 ppm

Emission Unit: BW Boiler (CO)

Average Time: daily average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | CEM Performance Summary | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|-----------------|----------------------|-----------------|---------------------|-----------------|-----------------------|-----------------|-------------------|-----------------|---|------------------------|-----------------|-----------------------------|-----------------|-------------------|------------------|-----------------------|-----------------|-------------------|-----------------|
| <p>1. Duration of Excess Emissions</p> <table> <tr><td>A. Startup/Shutdown</td><td><u>0.00</u> hrs</td></tr> <tr><td>B. Control Equipment</td><td><u>0.00</u> hrs</td></tr> <tr><td>C. Process Problems</td><td><u>0.00</u> hrs</td></tr> <tr><td>D. Other Known Causes</td><td><u>0.00</u> hrs</td></tr> <tr><td>E. Unknown Causes</td><td><u>0.00</u> hrs</td></tr> </table> <p>2. Total Duration <u>0.00</u> hrs</p> <p>3. Percent of Total Excess Emissions <u>0.00</u> %</p> | A. Startup/Shutdown | <u>0.00</u> hrs | B. Control Equipment | <u>0.00</u> hrs | C. Process Problems | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs | <p>1. Duration of CEM Downtime During Source Operation</p> <table> <tr><td>A. Monitor Malfunction</td><td><u>1.00</u> hrs</td></tr> <tr><td>B. Non- Monitor Malfunction</td><td><u>0.00</u> hrs</td></tr> <tr><td>C. QA Calibration</td><td><u>17.00</u> hrs</td></tr> <tr><td>D. Other Known Causes</td><td><u>0.00</u> hrs</td></tr> <tr><td>E. Unknown Causes</td><td><u>0.00</u> hrs</td></tr> </table> <p>2. Total Duration <u>18.00</u> hrs</p> <p>3. Percent of Total CEM Downtime <u>0.82</u> %</p> | A. Monitor Malfunction | <u>1.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs | C. QA Calibration | <u>17.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| A. Startup/Shutdown | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| B. Control Equipment | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| C. Process Problems | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| D. Other Known Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| E. Unknown Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| A. Monitor Malfunction | <u>1.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| B. Non- Monitor Malfunction | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| C. QA Calibration | <u>17.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| D. Other Known Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| E. Unknown Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)
 Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Magnos 106 (O₂)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: BW Boiler (O₂)

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | CEM Performance Summary |
|---|--|
| <p>1. Duration of Excess Emissions</p> <p>A. Startup/Shutdown <u>0.00</u> hrs</p> <p>B. Control Equipment <u>0.00</u> hrs</p> <p>C. Process Problems <u>0.00</u> hrs</p> <p>D. Other Known Causes <u>0.00</u> hrs</p> <p>E. Unknown Causes <u>0.00</u> hrs</p> <p>2. Total Duration <u>0.00</u> hrs</p> <p>3. Percent of Total Excess Emissions <u>0.00</u> %</p> | <p>1. Duration of CEM Downtime During Source Operation</p> <p>A. Monitor Malfunction <u>1.00</u> hrs</p> <p>B. Non-Monitor Malfunction <u>0.00</u> hrs</p> <p>C. QA Calibration <u>17.00</u> hrs</p> <p>D. Other Known Causes <u>0.00</u> hrs</p> <p>E. Unknown Causes <u>0.00</u> hrs</p> <p>2. Total Duration <u>18.00</u> hrs</p> <p>3. Percent of Total CEM Downtime <u>0.82</u> %</p> |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Limas 11 (NO_x)

Facility: Marathon Petroleum Company LLC

Manufacturer: ABB

1300 South Fort Street

Detroit, MI 48217

Emission Limit: 80 ppm

Average Time: 7 day average

Emission Unit: FCCU Regenerator

Emission Limit: 70 ppm

Average Time: 365 day average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>10.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>10.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.46</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 500 ppm

Emission Unit: FCCU Regenerator

Average Time: one hour average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>4.00</u> hrs | C. QA Calibration | <u>10.00</u> hrs |
| D. Other Known Causes | <u>5.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>9.00</u> hrs | 2. Total Duration | <u>10.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.41</u> % | 3. Percent of Total CEM Downtime | <u>0.46</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Magnos 16 (O₂)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: FCCU Regenerator

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>10.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>10.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.46</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)
 Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Limas 11 (SO2)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Unit: FCCU Regenerator

Emission Limit: 70 ppm

Average Time: 7 day average

Emission Limit: 35 ppm

Average Time: 365 day average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | CEM Performance Summary | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|-----------------|----------------------|-----------------|---------------------|-----------------|-----------------------|-----------------|-------------------|-----------------|---|------------------------|-----------------|-----------------------------|-----------------|-------------------|------------------|-----------------------|-----------------|-------------------|-----------------|
| <p>1. Duration of Excess Emissions</p> <table> <tr><td>A. Startup/Shutdown</td><td><u>0.00</u> hrs</td></tr> <tr><td>B. Control Equipment</td><td><u>0.00</u> hrs</td></tr> <tr><td>C. Process Problems</td><td><u>0.00</u> hrs</td></tr> <tr><td>D. Other Known Causes</td><td><u>0.00</u> hrs</td></tr> <tr><td>E. Unknown Causes</td><td><u>0.00</u> hrs</td></tr> </table> <p>2. Total Duration <u>0.00</u> hrs</p> <p>3. Percent of Total Excess Emissions <u>0.00</u> %</p> | A. Startup/Shutdown | <u>0.00</u> hrs | B. Control Equipment | <u>0.00</u> hrs | C. Process Problems | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs | <p>1. Duration of CEM Downtime During Source Operation</p> <table> <tr><td>A. Monitor Malfunction</td><td><u>0.00</u> hrs</td></tr> <tr><td>B. Non- Monitor Malfunction</td><td><u>0.00</u> hrs</td></tr> <tr><td>C. QA Calibration</td><td><u>10.00</u> hrs</td></tr> <tr><td>D. Other Known Causes</td><td><u>0.00</u> hrs</td></tr> <tr><td>E. Unknown Causes</td><td><u>0.00</u> hrs</td></tr> </table> <p>2. Total Duration <u>10.00</u> hrs</p> <p>3. Percent of Total CEM Downtime <u>0.46</u> %</p> | A. Monitor Malfunction | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs | C. QA Calibration | <u>10.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| A. Startup/Shutdown | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| B. Control Equipment | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| C. Process Problems | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| D. Other Known Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| E. Unknown Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| A. Monitor Malfunction | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| B. Non- Monitor Malfunction | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| C. QA Calibration | <u>10.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| D. Other Known Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| E. Unknown Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Lighthawk 560

Facility: Marathon Petroleum Company LLC

Manufacturer: Teledyne Monitor Labs

1300 South Fort Street

Detroit, MI 48217

Emission Limit: 20% opacity

Emission Unit: FCCU Regenerator

Average Time: 6 minute average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>4.50</u> hrs | C. QA Calibration | <u>4.00</u> hrs |
| D. Other Known Causes | <u>4.40</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>8.90</u> hrs | 2. Total Duration | <u>4.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.41</u> % | 3. Percent of Total CEM Downtime | <u>0.18</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: 2000GC

Facility: Marathon Petroleum Company LLC

Manufacturer: ABB

1300 South Fort Street

Detroit, MI 48217

Emission Limit: 162 ppm

Emission Unit: West Plant Fuel Gas NSPS Heaters

Average Time: 3 hour average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>33.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>3.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>36.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>1.65</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: 2000 Vista II

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 162 ppm

Emission Unit: East Plant Fuel Gas NSPS Heaters

Average Time: 3 hour average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>17.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>17.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.78</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Limas 11 (NO_x)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 0.2 lbs/MMBTU

Emission Unit: Zurn Boiler

Average Time: 24 hour average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | CEM Performance Summary | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|-----------------|----------------------|-----------------|---------------------|-----------------|-----------------------|-----------------|-------------------|-----------------|---|------------------------|-----------------|-----------------------------|-----------------|-------------------|-----------------|-----------------------|-----------------|-------------------|-----------------|
| <p>1. Duration of Excess Emissions</p> <table> <tr><td>A. Startup/Shutdown</td><td><u>0.00</u> hrs</td></tr> <tr><td>B. Control Equipment</td><td><u>0.00</u> hrs</td></tr> <tr><td>C. Process Problems</td><td><u>0.00</u> hrs</td></tr> <tr><td>D. Other Known Causes</td><td><u>0.00</u> hrs</td></tr> <tr><td>E. Unknown Causes</td><td><u>0.00</u> hrs</td></tr> </table> <p>2. Total Duration <u>0.00</u> hrs</p> <p>3. Percent of Total Excess Emissions <u>0.00</u> %</p> | A. Startup/Shutdown | <u>0.00</u> hrs | B. Control Equipment | <u>0.00</u> hrs | C. Process Problems | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs | <p>1. Duration of CEM Downtime During Source Operation</p> <table> <tr><td>A. Monitor Malfunction</td><td><u>0.00</u> hrs</td></tr> <tr><td>B. Non- Monitor Malfunction</td><td><u>0.00</u> hrs</td></tr> <tr><td>C. QA Calibration</td><td><u>2.00</u> hrs</td></tr> <tr><td>D. Other Known Causes</td><td><u>0.00</u> hrs</td></tr> <tr><td>E. Unknown Causes</td><td><u>0.00</u> hrs</td></tr> </table> <p>2. Total Duration <u>2.00</u> hrs</p> <p>3. Percent of Total CEM Downtime <u>0.09</u> %</p> | A. Monitor Malfunction | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs | C. QA Calibration | <u>2.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| A. Startup/Shutdown | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| B. Control Equipment | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| C. Process Problems | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| D. Other Known Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| E. Unknown Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| A. Monitor Malfunction | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| B. Non- Monitor Malfunction | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| C. QA Calibration | <u>2.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| D. Other Known Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |
| E. Unknown Causes | <u>0.00</u> hrs | | | | | | | | | | | | | | | | | | | | |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: URAS 26 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 0.1 lbs/MMBTU

Emission Unit: Zurn Boiler

Average Time: annual rolling average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>2.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>2.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.09</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC₁ Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Magnos 2 (O₂)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: Zurn Boiler

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>2.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>2.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.09</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO2 NOx CO CO2 O2 TRS H2S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: LIMAS-11-UV

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB Advance Optima

Emission Limit: 250 ppm

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Average Time: 12 hour average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>27.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>3.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>30.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>1.37</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: MAGNOS 106/206

Facility: Marathon Petroleum Company LLC

Manufacturer: ABB Advance Optima

1300 South Fort Street

Detroit, MI 48217

Emission Limit: none

Emission Unit: Sulfur Recovery Unit Thermal Oxidizer

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>27.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>3.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>30.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>1.37</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 400 ppm

Emission Unit: CCR Charge Heater (CO)

Average Time: daily average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>5.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>5.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.23</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Magnos 106 (O₂)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: CCR Charge Heater (O₂)

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>5.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>5.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.23</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: URAS 14 (CO)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 400 ppm

Emission Unit: FCCU Charge Heater

Average Time: 1 hour average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>6.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>73.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>79.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>3.62</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Magnos 106 (O₂)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: FCCU Charge Heater

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>2.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>73.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>75.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>3.43</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Limas 11 (NO_x)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: 0.05 lbs/MMBTU

Emission Unit: Crude/Vacuum Charge Heater

Average Time: annual rolling average

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non-Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>2.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>2.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.09</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: N/A

Reporting Quarter: Second 2012

Monitor Model: Magnos 106 (O₂)

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: ABB

Emission Limit: none

Emission Unit: Crude/Vacuum Charge Heater (O₂)

Average Time: none

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>2.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>2.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.09</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Second 2012

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LLC

Manufacturer: Powertrol

1300 South Fort Street

Detroit, MI 48217

Emission Limit: Pilot Light Present

Emission Unit: Vents to CP Flare

Average Time: continuously

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non-Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>0.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes* | <u>0.00</u> hrs |
| E. Unknown Causes | <u>1.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>1.00</u> hrs | 2. Total Duration | <u>0.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.05</u> % | 3. Percent of Total CEM Downtime | <u>0.00</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Second 2012

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LLC
1300 South Fort Street
Detroit, MI 48217

Manufacturer: Powertrol

Emission Limit: Pilot Light Present

Emission Unit: Vents to Alkylation Unit Flare

Average Time: continuously

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>0.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes* | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>0.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.00</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Second 2012

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LLC

Manufacturer: Powertrol

1300 South Fort Street

Detroit, MI 48217

Emission Limit: Pilot Light Present

Emission Unit: Vents to Unifiner Flare

Average Time: continuously

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|-----------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>0.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes* | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>0.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>0.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.00</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Excess Emission and CEM Reporting Form

Pollutant: SO₂ NO_x CO CO₂ O₂ TRS H₂S HC1 Opacity (Circle One)

Other: Flare Pilot

Reporting Quarter: Second 2012

Monitor Model: SLX-202

Facility: Marathon Petroleum Company LLC

Manufacturer: Powertrol

1300 South Fort Street

Detroit, MI 48217

Emission Limit: Pilot Light Present

Emission Unit: Vents to Crude Flare

Average Time: continuously

Total Operating Hours of Emission Unit: 2184 hrs

| Emission Data Summary | | CEM Performance Summary | |
|--------------------------------------|-----------------|---|------------------|
| 1. Duration of Excess Emissions | | 1. Duration of CEM Downtime During Source Operation | |
| A. Startup/Shutdown | <u>0.00</u> hrs | A. Monitor Malfunction | <u>0.00</u> hrs |
| B. Control Equipment | <u>0.00</u> hrs | B. Non- Monitor Malfunction | <u>0.00</u> hrs |
| C. Process Problems | <u>0.00</u> hrs | C. QA Calibration | <u>0.00</u> hrs |
| D. Other Known Causes | <u>0.00</u> hrs | D. Other Known Causes* | <u>0.00</u> hrs |
| E. Unknown Causes | <u>0.00</u> hrs | E. Unknown Causes | <u>11.00</u> hrs |
| 2. Total Duration | <u>0.00</u> hrs | 2. Total Duration | <u>11.00</u> hrs |
| 3. Percent of Total Excess Emissions | <u>0.00</u> % | 3. Percent of Total CEM Downtime | <u>0.50</u> % |

(% Total excess emissions) = (Total duration of excess emissions) / (Total operating time) x 100%

(% CEM downtime) = (Total duration of CEM downtime) / (Total operating time) x 100%

If there were no exceedences, the required analyses were made and no CEM downtime and/or excess emissions occurred during the reporting period.

*Other Known Causes: Hours in this category are attributed to weather, including rain and snow, as well as fog from cooling tower operation interfering with the sight of the analyzer. Visual checks verified a pilot was present.

Appendix B

New Source Performance Standards (NSPS) Subpart J Alternate Monitoring Plan (AMP) Data

| Complex 3 (RADAR) - B | | Complex 3 (RADAR) - C | | Complex 4 (AMP Sheet) - D | | Complex 4 (AMP Sheet) - E | |
|--------------------------|--|--------------------------|--|---------------------------|--|---------------------------|--|
| Most Recent Sample Dates | FCCU Disulfide off-gas H2S ppm 2 x year | Most Recent Sample Dates | CP Spent Caustic Drum Vent H2S ppm 2 x year | Most Recent Sample Dates | SR Aromatics Sump Vent H2S ppm 2 x year | Most Recent Sample Dates | CCR Chlorsorb Vent SO2 ppm 2 x year |
| 1/4/2012 | 0 | 1/4/2012 | 0 | 3/29/2012 | 0 | 3/28/2012 | 0 |
| 5/13/2012 | 0 | 5/3/2012 | 0 | 6/28/2012 | 0 | 6/27/2012 | 0 |

| Complex 2 (AMP Sheet) - A | | Complex 4 (Lab Data) | | Complex 2 (Lab Data) | |
|----------------------------|--------------|---------------------------|----------|---------------------------------|----------|
| Alky Spent Caustic H2S ppm | When flaring | CCR/SR Recycle H2 H2S ppm | 2 x year | DHT/Unifiner Recycle H2 H2S ppm | 5 x week |
| Date | | 14RHH2S LDd | | 07RHH2S LD | |

| | | | |
|-----------|---|----|-----------|
| 4.1.2012 | | <1 | Unit down |
| 4.2.2012 | | <1 | |
| 4.3.2012 | | <1 | 55 * |
| 4.4.2012 | | <1 | 200 * |
| 4.5.2012 | | <1 | 732 * |
| 4.6.2012 | | <1 | 718 * |
| 4.7.2012 | | <1 | <1 |
| 4.8.2012 | | <1 | 717 * |
| 4.9.2012 | | <1 | <1 |
| 4.10.2012 | | <1 | <1 |
| 4.11.2012 | | <1 | <1 |
| 4.12.2012 | | <1 | 15 * |
| 4.13.2012 | | <1 | <1 |
| 4.14.2012 | | <1 | <1 |
| 4.15.2012 | | <1 | <1 |
| 4.16.2012 | | <1 | 50 * |
| 4.17.2012 | 0 | ** | <1 |
| 4.18.2012 | 0 | ** | <1 |
| 4.19.2012 | 0 | ** | <1 |
| 4.20.2012 | 0 | ** | <1 |
| 4.21.2012 | 0 | ** | <1 |
| 4.22.2012 | 0 | ** | <1 |
| 4.23.2012 | 0 | ** | <1 |
| 4.24.2012 | 0 | ** | <1 |
| 4.25.2012 | 0 | ** | <1 |
| 4.26.2012 | 0 | ** | <1 |
| 4.27.2012 | 0 | ** | <1 |
| 4.28.2012 | 0 | ** | <1 |
| 4.29.2012 | 0 | ** | <1 |
| 4.30.2012 | 0 | ** | <1 |
| 5.1.2012 | 0 | ** | <1 |
| 5.2.2012 | 0 | ** | <1 |
| 5.3.2012 | 0 | ** | <1 |
| 5.4.2012 | 0 | ** | <1 |
| 5.5.2012 | 0 | ** | 10 * |
| 5.6.2012 | 0 | ** | <1 |
| 5.7.2012 | 0 | ** | <1 |
| 5.8.2012 | 0 | ** | <1 |
| 5.9.2012 | 0 | ** | <1 |
| 5.10.2012 | 0 | ** | <1 |
| 5.11.2012 | 0 | ** | <1 |
| 5.12.2012 | 0 | ** | <1 |
| 5.13.2012 | 0 | ** | <1 |
| 5.14.2012 | 0 | ** | <1 |
| 5.15.2012 | 0 | ** | <1 |
| 5.16.2012 | 0 | ** | <1 |
| 5.17.2012 | 0 | ** | <1 |
| 5.18.2012 | 0 | ** | <1 |
| 5.19.2012 | 0 | ** | <1 |
| 5.20.2012 | 0 | ** | <1 |
| 5.21.2012 | 0 | ** | <1 |
| 5.22.2012 | 0 | ** | <1 |
| 5.23.2012 | 0 | ** | <1 |
| 5.24.2012 | 0 | ** | <1 |
| 5.25.2012 | 0 | ** | <1 |
| 5.26.2012 | 0 | ** | <1 |
| 5.27.2012 | 0 | ** | <1 |
| 5.28.2012 | 0 | ** | <1 |
| 5.29.2012 | 0 | ** | <1 |
| 5.30.2012 | 0 | ** | <1 |
| 5.31.2012 | 0 | ** | <1 |
| 6.1.2012 | 0 | ** | <1 |
| 6.2.2012 | 0 | ** | <1 |
| 6.3.2012 | 0 | ** | <1 |
| 6.4.2012 | 0 | ** | <1 |
| 6.5.2012 | 0 | ** | <1 |
| 6.6.2012 | 0 | ** | <1 |
| 6.7.2012 | 0 | ** | <1 |
| 6.8.2012 | 0 | ** | <1 |
| 6.9.2012 | 0 | ** | <1 |
| 6.10.2012 | 0 | ** | <1 |
| 6.11.2012 | 0 | ** | <1 |
| 6.12.2012 | 0 | ** | <1 |
| 6.13.2012 | 0 | ** | <1 |
| 6.14.2012 | 0 | ** | <1 |
| 6.15.2012 | 0 | ** | <1 |
| 6.16.2012 | 0 | ** | <1 |
| 6.17.2012 | 0 | ** | <1 |
| 6.18.2012 | 0 | ** | <1 |
| 6.19.2012 | 0 | ** | <1 |
| 6.20.2012 | 0 | ** | <1 |
| 6.21.2012 | 0 | ** | <1 |
| 6.22.2012 | 0 | ** | <1 |
| 6.23.2012 | 0 | ** | 75 * |
| 6.24.2012 | 0 | ** | <1 |
| 6.25.2012 | 0 | ** | 35 * |
| 6.26.2012 | 0 | ** | <1 |
| 6.27.2012 | 0 | ** | <1 |
| 6.28.2012 | 0 | ** | <1 |
| 6.29.2012 | 0 | ** | <1 |
| 6.30.2012 | 0 | ** | <1 |

**Readings were taken during the morning rounds and not necessarily during caustic release to the flare

*No flaring occurred at this time

Appendix C

Cylinder Gas Audit Information

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: Crude and Vacuum Heater NOx

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas11 (NOx) and Magnos 106 (O2)

Constituents monitored (w/ranges): NOx (0-100) O2 (0-10%)

Date CGA performed: 4/12/2012

Performed by: Glen Senczysztn and Bryan Longtine

Calibration gases used:

| MAP stock # | Constituent | low- or mid- | Cylinder # | Exp date | Certified concentration | Units |
|-------------|-------------|--------------|------------|----------|-------------------------|-------|
| 76-188-132 | NO | low | EB0014057 | 01/28/13 | 25.4 | ppm |
| 76-188-219 | O2 | low | EB0005557 | 10/20/14 | 5.51 | % |
| 76-188-132 | NO | mid | CC319137 | 01/11/13 | 55.8 | ppm |
| 76-188-215 | O2 | mid | CC8457 | 07/28/12 | 9.12 | % |

Low-level CGA:

| Start time | End time | NO | O2 |
|---------------|----------|-------|-------|
| 10:21 | 10:33 | 25.4 | 5.32 |
| 10:33 | 10:45 | 25.4 | 5.32 |
| 10:45 | 10:57 | 25.4 | 5.32 |
| Average | | 25.4 | 5.32 |
| Cal gas value | | 25.4 | 5.51 |
| CGA accuracy | | 0.00% | 3.45% |

Mid-level CGA:

| Start time | End time | NO | O2 |
|---------------|----------|-------|-------|
| 10:59 | 11:11 | 55.8 | 8.92 |
| 11:11 | 11:23 | 55.8 | 8.92 |
| 11:23 | 11:35 | 55.8 | 8.92 |
| Average | | 55.8 | 8.92 |
| Cal gas value | | 55.8 | 9.12 |
| CGA accuracy | | 0.00% | 2.19% |

Cylinder Gas Audit (CGA) Datasheet

Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: East Plant Fuel Gas

Analyzer: West Plant Fuel Gas

Analyzer Manufacturer: ABB

Analyzer Manufacturer: ABB

Analyzer model #'s: 2000 VISTA II

Analyzer model #'s: 2000GC

Constituents monitored
(w/ranges): H2S (0-300)

Constituents monitored
(w/ranges): H2S (0-300)

Date CGA performed: 4/12/2012

Date CGA performed: 3/16/2012

Performed by: D. Pek and E. Justa

Performed by: B. Longtine

Calibration gases used:

| MAP stock # | Constituent | low- or mid- | Cylinder # | Exp date | Certified concentration | Units |
|----------------------------|-------------|--------------|------------|----------|-------------------------|-------|
| East Plant Fuel Gas | | | | | | |
| 76-188-017 | H2S | low | EB0031076 | 06/03/12 | 75.3 | ppm |
| 76-188-019 | H2S | mid | EB0015328 | 03/08/13 | 163 | ppm |
| West Plant Fuel Gas | | | | | | |
| 76-188-017 | H2S | low | EB0031076 | 06/03/12 | 75.3 | ppm |
| 76-188-019 | H2S | mid | EB0015328 | 03/08/13 | 163 | ppm |

East Plant Fuel Gas

Low-level CGA:

| Start time | End time | H2S |
|---------------|----------|------|
| 9:36 | 9:41 | 76.6 |
| 9:41 | 9:46 | 74.4 |
| 9:46 | 9:51 | 75.1 |
| Average | | 75.4 |
| Cal gas value | | 75.3 |
| CGA accuracy | | 0.1% |

Mid-level CGA:

| Start time | End time | H2S |
|---------------|----------|-------|
| 9:56 | 10:01 | 163.8 |
| 10:01 | 10:06 | 163.4 |
| 10:06 | 10:11 | 156.9 |
| Average | | 161.4 |
| Cal gas value | | 163.0 |
| CGA accuracy | | 1.0% |

A RATA was conducted on the West Plant Fuel Gas CEMS 4/18/2012

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: Zurn Boiler

Analyzer Manufacturer: ABB

Analyzer Model Number's: ABB Limas 11 (NOx), ABB Uras 14 (CO), and ABB Magnos 106 (O2)

Serial Number's: 3.341196.1 (NOx), 3.341671.1 (CO), and 3.341670.1 (O2)

Constituents monitored (w/ranges): NOx (0-500), CO high range (0-500), CO low range (0-50) and O2 (0-10%)

Date CGA performed: 6/19/2012

Performed by: Bryan Longtine

Calibration gases used:

| MAP stock # | Constituent | low- or mid- | Cylinder # | Exp date | Certified concentration | Units |
|-------------|---------------|--------------|------------|----------|-------------------------|-------|
| 76-188-232 | NOx | low | EB0025464 | 02/02/13 | 120 | ppm |
| 76-188-232 | CO high range | low | EB0025464 | 02/02/13 | 125 | ppm |
| 76-188-259 | CO low range | low | EB0033563 | 09/23/14 | 11.9 | ppm |
| 76-188-259 | O2 | low | EB0033563 | 09/23/14 | 5.00 | % |
| 76-188-231 | NOx | mid | EB0025213 | 01/07/13 | 268 | ppm |
| 76-188-231 | CO high range | mid | EB0025213 | 01/07/13 | 273 | ppm |
| 76-188-269 | CO low range | mid | EB0033318 | 09/23/14 | 27.80 | ppm |
| 76-188-269 | O2 | mid | EB0033318 | 09/23/14 | 8.98 | % |

Low-level CGA:

| Start time | End time | NOx | CO high range | CO low range | O2 |
|---------------|----------|------|---------------|--------------|------|
| 18:49 | 19:01 | 119 | 127.8 | 13.08 | 5.08 |
| 19:01 | 19:14 | 119 | 127.8 | 13.03 | 5.07 |
| 19:14 | 19:27 | 119 | 127.8 | 12.92 | 5.07 |
| Average | | 119 | 128 | 13.0 | 5.07 |
| Cal gas value | | 120 | 125 | 11.9 | 5.00 |
| CGA accuracy | | 0.8% | 2.2% | 9.3% | 1.5% |

Mid-level CGA:

| Start time | End time | NOx | CO high range | CO low range | O2 |
|---------------|----------|------|---------------|--------------|------|
| 19:36 | 19:48 | 266 | 278.1 | 28.57 | 9.05 |
| 19:48 | 20:00 | 266 | 278.5 | 28.57 | 9.07 |
| 20:00 | 20:13 | 266 | 278.5 | 28.51 | 9.06 |
| Average | | 266 | 278 | 28.6 | 9.06 |
| Cal gas value | | 268 | 273 | 27.8 | 8.98 |
| CGA accuracy | | 0.7% | 2.0% | 2.7% | 0.9% |

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: B&W Boiler CEMS

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas 11 (NOx), Magnos 106 (O2), Uras 14 (CO)

Constituents monitored (w/ranges): NOx (0-500), CO (0-500), O2 (0-10%)

Date CGA performed: 4/2/2012

Performed by: Eric Justa and Glen Senczyszyn

Calibration gases used:

| MAP stock # | Constituent | low- or mid- | Cylinder # | Exp date | Certified concentration | Units |
|-------------|-------------|--------------|------------|----------|-------------------------|-------|
| 76-188-232 | NO | low | EB0025464 | 02/02/13 | 119 | ppm |
| 76-188-232 | CO | low | EB0025464 | 02/02/13 | 125 | ppm |
| 76-188-219 | O2 | low | EB0031049 | 10/20/14 | 5.52 | % |
| 76-188-231 | NO | mid | EB0025951 | 11/09/13 | 270 | ppm |
| 76-188-231 | CO | mid | EB0025951 | 11/09/13 | 277 | ppm |
| 76-188-215 | O2 | mid | EB0023341 | 06/24/13 | 8.99 | % |

Low-level CGA:

| Start time | End time | NO | CO | O2 |
|---------------|----------|-------|------|------|
| 10:28 | 10:40 | 117 | 125 | 5.52 |
| 10:40 | 10:52 | 117 | 125 | 5.52 |
| 10:52 | 11:04 | 117 | 125 | 5.52 |
| Average | | 117.0 | 125 | 5.52 |
| Cal gas value | | 119.0 | 125 | 5.52 |
| CGA accuracy | | 1.7% | 0.0% | 0.0% |

High-level CGA:

| Start time | End time | NO | CO | O2 |
|---------------|----------|-------|------|------|
| 14:30 | 14:43 | 279 | 277 | 8.96 |
| 14:43 | 14:55 | 279 | 277 | 8.94 |
| 14:55 | 15:07 | 279 | 277 | 8.99 |
| Average | | 279.0 | 277 | 8.96 |
| Cal gas value | | 270.0 | 277 | 8.99 |
| CGA accuracy | | 3.3% | 0.0% | 0.3% |

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: CCR Charge Heater

Analyzer Manufacturer: ABB

Analyzer model #'s: URAS 14 (CO) and Magnos 106 (O2)

Constituents monitored (w/ranges): CO (0-500) and O2 (0-10%)

Date CGA performed: 6/25/2012

Performed by: Eric Justa and Erik Carlson

Calibration gases used:

| MAP stock # | Constituent | low- or mid- | Cylinder # | Exp date | Certified concentration | Units |
|-------------|-------------|--------------|------------|----------|-------------------------|-------|
| 76-188-166 | CO | low | CC275924 | 05/15/15 | 122 | ppm |
| 76-188-166 | O2 | low | CC275924 | 05/15/15 | 4.96 | % |
| 76-188-165 | CO | mid | CC311111 | 01/23/15 | 274 | ppm |
| 76-188-165 | O2 | mid | CC311111 | 01/23/15 | 8.93 | % |

Low-level CGA:

| Start time | End time | CO | O2 |
|---------------|----------|-------|------|
| 10:05 | 10:13 | 122 | 4.96 |
| 10:13 | 10:21 | 122 | 4.96 |
| 10:21 | 10:29 | 122 | 4.96 |
| Average | | 122 | 4.96 |
| Cal gas value | | 122.0 | 4.96 |
| CGA accuracy | | 0.0% | 0.0% |

Mid-level CGA:

| Start time | End time | CO | O2 |
|---------------|----------|------|------|
| 10:32 | 10:41 | 270 | 8.87 |
| 10:41 | 10:50 | 270 | 8.87 |
| 10:50 | 10:59 | 270 | 8.87 |
| Average | | 270 | 8.87 |
| Cal gas value | | 274 | 8.93 |
| CGA accuracy | | 1.5% | 0.7% |

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LP - Michigan Refining Division

Analyzer: FCC Charge Heater

Analyzer Manufacturer: ABB

Analyzer model #'s: URAS 14 (CO) and Magnos 106 (O2)

Constituents monitored (w/ranges): CO (0-500) and O2 (0-10%)

Date CGA performed: 5/2/2012

Performed by: Eric Justa and Bryan Longtine

Calibration gases used:

| MAP stock # | Constituent | low- or mid- | Cylinder # | Exp date | Certified concentration | Units |
|-------------|-------------|--------------|------------|----------|-------------------------|-------|
| 76-188-166 | CO | low | CC275912 | 06/28/13 | 124 | ppm |
| 76-188-166 | O2 | low | CC275912 | 06/28/13 | 5.02 | % |
| 76-188-165 | CO | mid | EB0023488 | 02/13/15 | 275 | ppm |
| 76-188-165 | O2 | mid | EB0023488 | 02/13/15 | 8.98 | % |

Low-level CGA:

| Start time | End time | CO | O2 |
|---------------|----------|------|------|
| 9:41 | 9:50 | 124 | 5.05 |
| 9:50 | 9:59 | 124 | 5.05 |
| 9:59 | 10:08 | 124 | 5.05 |
| Average | | 124 | 5.05 |
| Cal gas value | | 124 | 5.02 |
| CGA accuracy | | 0.0% | 0.6% |

Mid-level CGA:

| Start time | End time | CO | O2 |
|---------------|----------|------|------|
| 10:08 | 10:17 | 272 | 9.00 |
| 10:17 | 10:27 | 272 | 9.00 |
| 10:27 | 10:37 | 272 | 9.00 |
| Average | | 272 | 9.00 |
| Cal gas value | | 275 | 8.98 |
| CGA accuracy | | 1.1% | 0.2% |

Cylinder Gas Audit (CGA) Datasheet
Marathon Petroleum Company LLC - Michigan Refining Division

Analyzer: FCCU Regenerator exhaust CEMS

Analyzer Manufacturer: ABB

Analyzer model #'s: Limas 11 (SO2/NOx), Magnos 106 (O2), Uras 14 (CO/CO2)

Constituents monitored (w/ranges): SO2 (0-200), NOx (0-200), CO (0-1000), CO2 (0-20%), O2 (0-10%)

Date CGA performed: 5/28/2012

Performed by: Bryan Longtine and Eric Justa

Calibration gases used:

| MAP stock # | Constituent | low- or mid- | Cylinder # | Exp date | Certified concentration | Units |
|-------------|-------------|--------------|------------|----------|-------------------------|-------|
| 76-188-218 | SO2 | low | EB0014006 | 11/15/12 | 47.7 | ppm |
| 76-188-218 | NO | low | | | 49.6 | ppm |
| 76-188-218 | CO | low | | | 247 | ppm |
| 76-188-218 | CO2 | low | | | 6.53 | % |
| 76-188-219 | O2 | low | EB0003884 | 05/16/14 | 5.51 | % |
| 76-188-213 | SO2 | mid | CC308954 | 3/24/14 | 111 | ppm |
| 76-188-213 | NO | mid | | | 111 | ppm |
| 76-188-213 | CO | mid | | | 546 | ppm |
| 76-188-213 | CO2 | mid | | | 12.1 | % |
| 76-188-215 | O2 | mid | EB0023341 | 06/24/13 | 8.99 | % |
| 76-188-215 | NO2 | mid | | | 90.9 | ppm |

Low-level CGA:

| Start time | End time | SO2 | NO | CO | CO2 | O2 |
|---------------|----------|------|------|-------|------|------|
| 9:48 | 10:00 | 44.3 | 54 | 253 | 6.7 | 5.87 |
| 10:00 | 10:12 | 44.3 | 52.7 | 253 | 6.7 | 5.87 |
| 10:12 | 10:26 | 46.2 | 52.2 | 253 | 6.7 | 5.88 |
| Average | | 45 | 53 | 253 | 6.70 | 5.87 |
| Cal gas value | | 47.7 | 49.6 | 247.0 | 6.53 | 5.51 |
| CGA accuracy | | 5.8% | 6.8% | 2.4% | 2.6% | 6.6% |

Mid-level CGA:

| Start time | End time | SO2 | NO | CO | CO2 | O2 |
|---------------|----------|-------|-------|------|------|------|
| 10:26 | 10:39 | 112.1 | 112.8 | 543 | 12.2 | 9.35 |
| 10:39 | 10:52 | 112.8 | 112.8 | 543 | 12.2 | 9.35 |
| 10:52 | 11:05 | 112.8 | 112.8 | 543 | 12.2 | 9.35 |
| Average | | 112.6 | 113 | 543 | 12.2 | 9.35 |
| Cal gas value | | 111 | 111.0 | 546 | 12.1 | 8.99 |
| CGA accuracy | | 1.4% | 1.6% | 0.5% | 0.8% | 4.0% |

The FedEx US Airbill has changed. See Section 4.
For shipments over 150 lbs., order the new FedEx Express Freight US Airbill.

The liability is limited to \$200 unless you declare a higher value. See back for details. By using the Airtel you agree to the service conditions on the back of this Airtel and in the current FedEx Service Guide, including terms that limit our liability.

The FedEx US Airbill has changed. See Section 4.
For shipments over 150 lbs., order the new FedEx Express Freight US Airbill.

*Our liability is limited to \$100 unless you purchase a higher value. See back for details. By using the Airtel you agree to the service conditions on the back of the Airtel and in the current FedEx Service Guide, including terms that limit our liability.

edEx NEW Package
Express US Airbill
Sender's FedEx Account Number 8010 4618 8641

From Please print and press hard.
Date 7-26-12 Sender's FedEx Account Number 8010 4618 8641
Sender's Name Kelly Bertera Phone (313) 297-6386
Company MARATHON PETROLEUM COMPANY LP
Address 1300 S FORT ST
City DETROIT State MI Zip 48217-1208

Your Internal Billing Reference
HES5 DEPT

To Recipient's Name

Company AIR & RADIATION DIVISION
U.S. EPA, REGION 5
Address 77 WEST JACKSON BLVD. (AE-17J)
CHICAGO, IL 60604
ATTN: COMPLIANCE OFFICER
City State Zip

0453186144

The FedEx US Airbill has changed. See Section 4.
For shipments over 150 lbs., order the new FedEx Express Freight US Airbill.

MUR3
0215
Sender's Copy

4 Express Package Service
Need Business Day 2 or 3 Business Days
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight
NEW FedEx 2Day A.M.
FedEx 2Day
FedEx Express Saver

5 Packaging
FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
No Signature Required
Direct Signature
Indirect Signature
Does this shipment contain dangerous goods?

7 Payment Bill to:
Sender Recipient Third Party Credit Card Cash/Check
Total Packages Total Weight Total Declared Value

611

edEx NEW Package
Express US Airbill
Sender's FedEx Account Number 8010 4618 8652

From Please print and press hard.
Date 7-26-12 Sender's FedEx Account Number 8010 4618 8652
Sender's Name Kelly Bertera Phone (313) 297-6386
Company MARATHON PETROLEUM COMPANY LP
Address 1300 S FORT ST
City DETROIT State MI Zip 48217-1208

Your Internal Billing Reference
HES5 DEPT

To Recipient's Name

Director, Air Enforcement Division
U.S. Environmental Protection Agency
C/O Matrix New World Engineering, Inc.
26 Columbia Turnpike
Florham Park, NJ 07932
City State Zip

0453186144

The FedEx US Airbill has changed. See Section 4.
For shipments over 150 lbs., order the new FedEx Express Freight US Airbill.

MUR3
0215
Sender's Copy

4 Express Package Service
Need Business Day 2 or 3 Business Days
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight
NEW FedEx 2Day A.M.
FedEx 2Day
FedEx Express Saver

5 Packaging
FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
No Signature Required
Direct Signature
Indirect Signature
Does this shipment contain dangerous goods?

7 Payment Bill to:
Sender Recipient Third Party Credit Card Cash/Check
Total Packages Total Weight Total Declared Value

611

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE. NO POSTAGE NEEDED.

FedEx NEW Package Express US Airbill

1 From Please print and press hard.
Date 7-26-12 Sender's FedEx Account Number 2094-6778-0
Sender's Name Kelly Bertera Phone 313, 297-6386
Company MARATHON PETROLEUM COMPANY LP
Address 1300 S FORT ST
City DETROIT State MI ZIP 48217-1208

2 Your Internal Billing Reference HESS DEPT
3 To Recipient's Name MS. WILHEMINA MCLEMORE Phone (666) 666-6666
Company MDEQ- DISTRICT SUPERVISOR

Address 3058 W. GRAND BLVD. STE. 2000
City DETROIT State MI ZIP 48202
0453186591

The FedEx US Airbill has changed. See Section 4.
For shipments over 150 lbs., order the new FedEx Express Freight US Airbill.

Sender's Copy
Name 0215
Tracking Number 8010 4623 3410

4 Express Package Service *To meet business.
Packages up to 150 lbs.
For packages over 150 lbs., use the new FedEx Express Freight US Airbill.
Next Business Day
FedEx First Overnight
FedEx Priority Overnight
FedEx Standard Overnight
FedEx 2Day
FedEx 2Day AM
FedEx 2Day
FedEx Express Saver
FedEx Overnight

5 Packaging *Declared value limit \$500.
FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery
No Signature Required
Direct Signature
Indirect Signature
Does this shipment contain dangerous goods?
No Yes
Dry Ice
CARGO AIRCRAFT ONLY

7 Payment Bill to:
Sender FedEx Acct. No. or Credit Card No. Inmate
Recipient Third Party Credit Card Cash/Check
Total Packages Total Weight Total Declared Value

FedEx NEW Package Express US Airbill

1 From Please print and press hard.
Date 7-26-12 Sender's FedEx Account Number 2094-6778-0
Sender's Name Kelly Bertera Phone 313, 297-6386
Company MARATHON PETROLEUM COMPANY LP
Address 1300 S FORT ST
City DETROIT State MI ZIP 48217-1208

2 Your Internal Billing Reference HESS DEPT
3 To Recipient's Name MS. WILHEMINA MCLEMORE Phone (666) 666-6666
Company MDEQ- DISTRICT SUPERVISOR

Address 3058 W. GRAND BLVD. STE. 2000
City DETROIT State MI ZIP 48202
0453186591

The FedEx US Airbill has changed. See Section 4.
For shipments over 150 lbs., order the new FedEx Express Freight US Airbill.

FedEx NEW Package Express US Airbill

1 From Please print and press hard.
Date 7-26-12 Sender's FedEx Account Number 2094-6778-0
Sender's Name Kelly Bertera Phone 313, 297-6386
Company MARATHON PETROLEUM COMPANY LP
Address 1300 S FORT ST
City DETROIT State MI ZIP 48217-1208

2 Your Internal Billing Reference HESS DEPT
3 To Recipient's Name MS. WILHEMINA MCLEMORE Phone (666) 666-6666
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